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New Moves



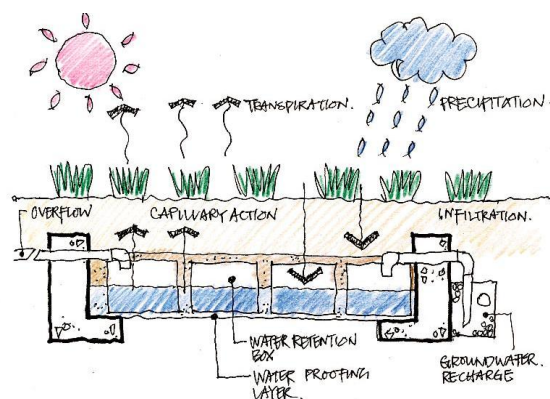
- Enhanced Zero Irrigation System at Yau Yue Wan Village Road
- Caring Measures for an Elderly-friendly Living Environment



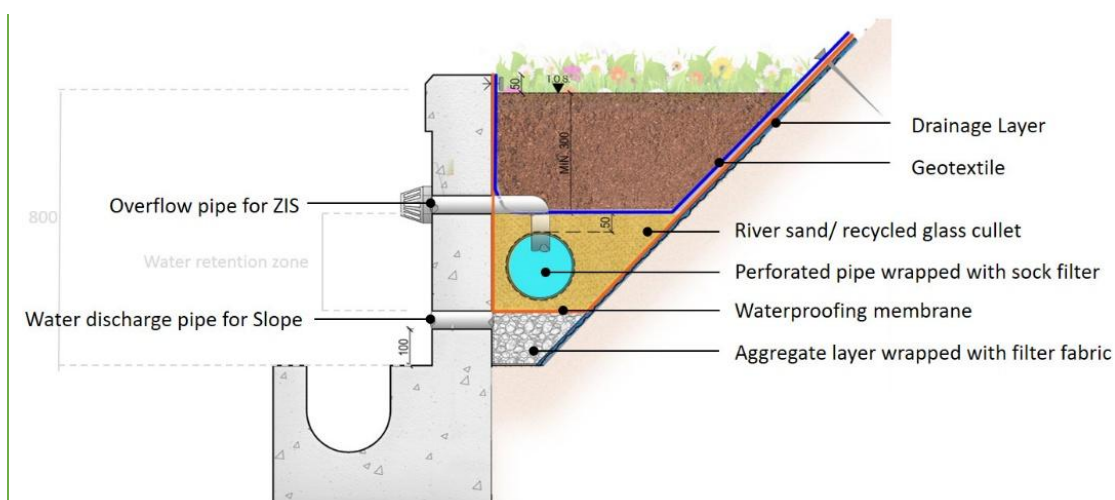
New Moves

Enhanced Zero Irrigation System at Yau Yue Wan Village Road

Committed to enhancing the climate resilience and sustainability of public housing through continuous development of green designs, the HA developed the Zero Irrigation System (ZIS) in 2013 as one of the initiatives in response to global climate change mitigation. ZIS collects and stores rainwater beneath the planting area, facilitating irrigation through root absorption.

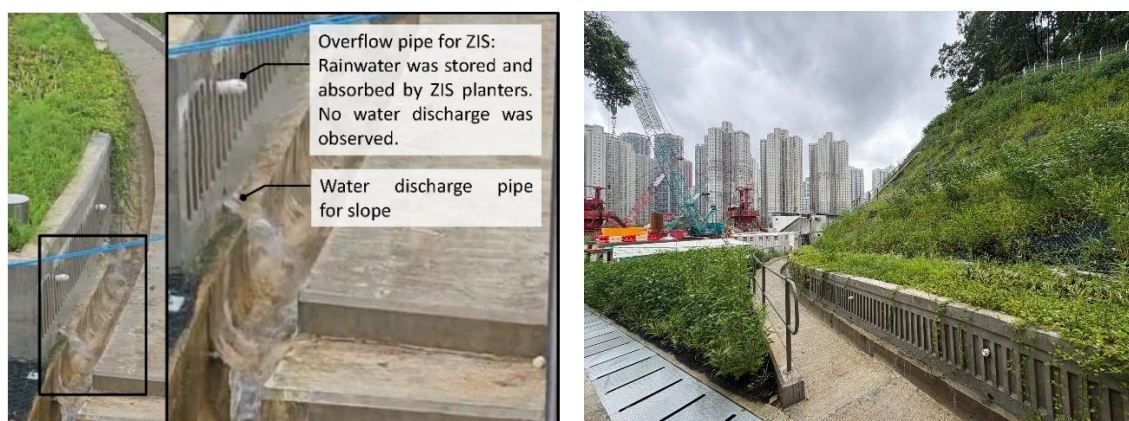


Design concept of ZIS.



Design of Yau Yue Wan Village Road.

The pilot project of Enhanced ZIS for toe wall planters at Yau Yue Wan Village Road, Sai Kung has been recently implemented, in collaboration with Civil Engineering and Development Department (CEDD). The system serves as both rainwater storage and rapid discharge of surface runoff by providing a water discharging layer at the bottom of the conventional ZIS. It has been proven to function well even after several inclement weather events between July and September 2025, including black rainstorm signal and typhoon signal no. 10.



The system functions well during the red rainstorm signal (left) and after the black rainstorm signal.

By leveraging the experience in public housing projects, the HA has provided comprehensive design advice, recommendations for material use and technical support at both design and construction stages to facilitate the implementation of Enhanced ZIS. Furthermore, joint mock-up installation and weekly inspections have been conducted with CEDD during the construction to maintain the high quality of workmanship.



Joint inspection of the slope under construction conducted by HA and CEDD professionals.



Enhanced ZIS at Yau Yue Wan Village Road.

Adopting a passive, non-mechanical design, ZIS not only offers a more cost-effective means of rainwater harvesting than the conventional system, it also reduces the risk of local flooding. Since 2016, ZIS has been adopted in planters of appropriate locations and sizes in all new public housing projects. By the end of 2024/25, ZIS had been installed in 44 estates. We will continue to explore the feasibility of the system in various settings to restore the natural hydrologic cycle in urban areas.



Caring Measures for an Elderly-friendly Living Environment

Fostering an elderly-friendly living environment is one of the well-being initiatives of the Hong Kong Housing Authority (HA). A series of trial measures have recently been introduced as follows:

Age-friendly Installations in Common Areas

Shelves and hooks have been installed near the mailboxes of Yue Wan Estate in Chai Wan and Ping Shek Estate in Kwun Tong for the elderly to place their personal belongings while collecting mails. Additional seating has been set up at the lift lobbies of Wan Hon Estate in Kwun Tong for elderly residents to take a short rest while waiting for lifts or passing by.



A bench at a lift lobby for the elderly to rest when waiting for the lift.



A hook (left) and a shelf for the elderly to place their belongings while collecting mails.



Smart Access Control System (SACS)

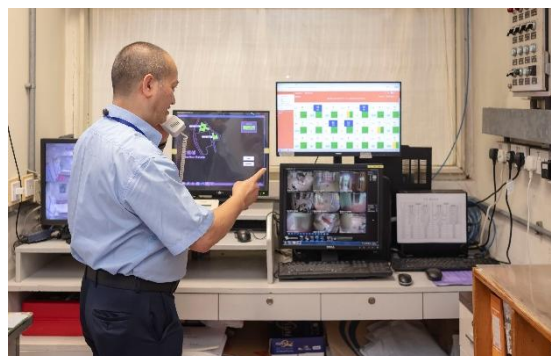
To save the hassle of remembering passcodes by the elderly residents and to enhance the security of domestic blocks, the HA has adopted SACS at Tung Wui Estate in Wong Tai Sin and Long Shin Estate in Yuen Long as a pilot. The elderly residents can now enjoy easier access with their Octopus card or "iAM Smart" Personal Code.



Access via an Octopus card (left) or an "iAM Smart" Personal Code under the Pilot SACS.

IoT Door Sensor System

The HA has selected Wan Hon Estate in Kwun Tong and Sheung Lok Estate in Homantin, two estates with higher population of elderly households, for a trial of the system. Sensors have been installed at the flat entrances of voluntarily-participated elderly households. The movement of their door is detected to enable designated relatives, friends and estate management staff to keep an eye on their door-opening status. The system will send notifications to the designated contact(s), so as to render timely and appropriate support to the elderly.



The system facilitates designated relatives and estate management staff to monitor the door-opening status of elderly residents.